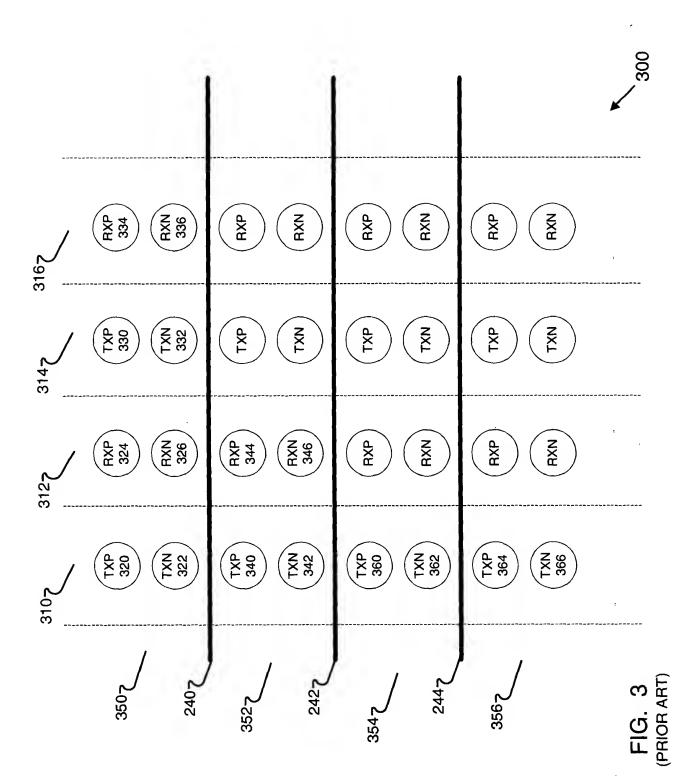
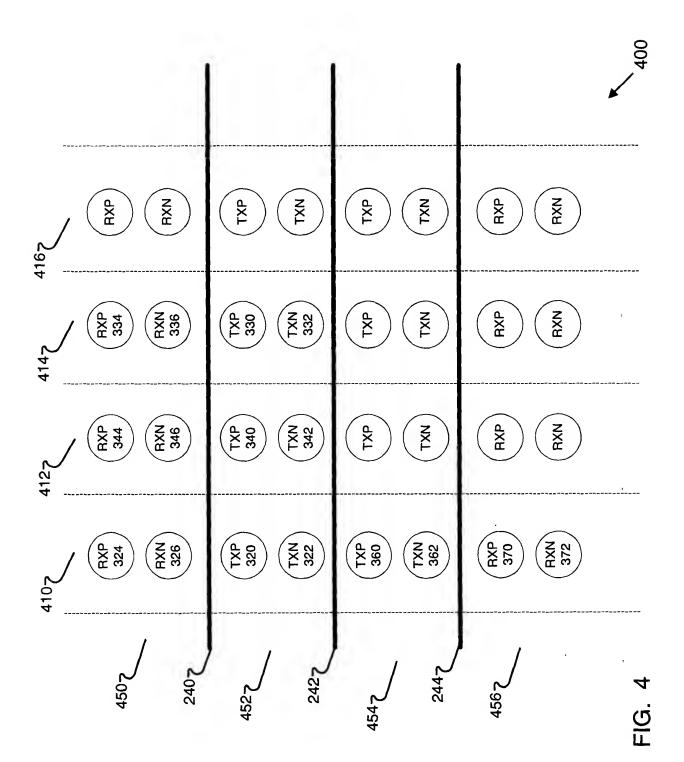
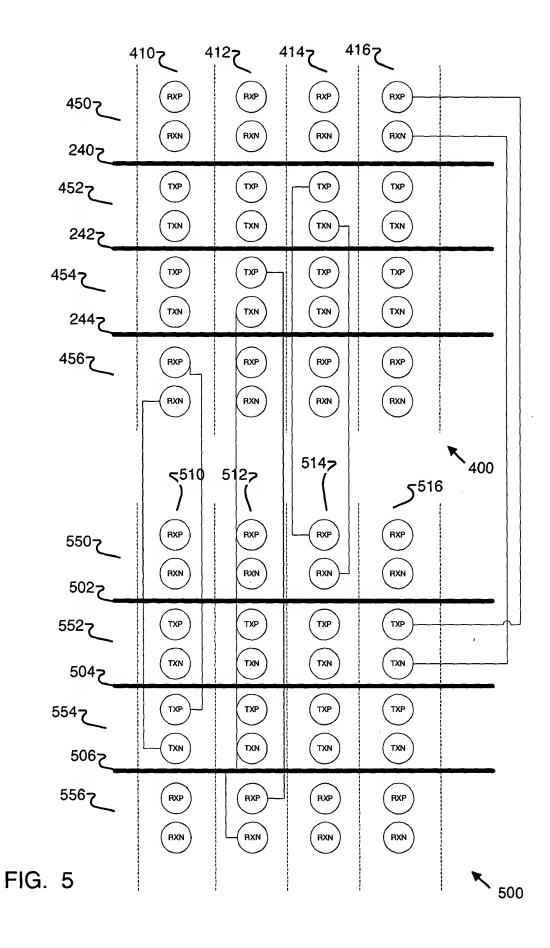


FIG. 2 (PRIOR ART)







Name	Valu	Comment					
Materials	Rogers 4350 FR4 Nelco 4000						
Dimensions	Length = 23.5" Width = 12" Thickness ~ 250mil						
Connector	GbX						
Troughs	Star Configuration Mesh Configuration Test Structures	3 Total					
Link length	3, 6, 9, 12, 15, 18 4.5, 7.5, 10.5, 13.5, 16.5, 19.5	Switch Card1, Mesh Switch Card2					
Connector size	25 column 10 column						
Connector space	Populated: 3" Footprints: 1.5"	1.5" between switch card connectors					
Total # of layers	22 (8 signal, 10 ground, 2 power)	Microstrip (top/bottom)					
Routing layers	3, 5, 7, 9, 14, 16, 18, 20						
Vias	Backdrilled to 5 for signals on 3 & 5 Backdrilled to 9 for signals on 7 & 9 Backdrilled to 16 for signals on 14 & 16 PTH for signals on 18 & 20						
Antipad clearance		Elliptical					
Trace width	8mil	Differential stripline					
Spacing	8mil						
Dielectric thickness	Rogers: 10mil FR4: Nelco:	Assume 1/2oz copper					

FIG. 6

Value	Top	Ground	Signal	Ground	Signal	Ground	Signal	Ground	Signal	Ground	Power	Power	Ground	Signal	Ground	Signal	Ground	Signal	Ground	Signal	Ground	Bottom
Layer # (from	(קטן	1 2	3	4	. 2	9	7	∞	6	10	11	12	13	14	15	16	17	18	19	20	21	22

FIG. 7